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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/975,293	975,293 10/11/2001		Max M. Yeung	01-3221496.00144	1284	
24319	7590	04/27/2006		EXAMINER		
	IC CORI	PORATION	TORRES, JOSEPH D			
MS: D-10		NE		ART UNIT	PAPER NUMBER	
MILPITA	MILPITAS, CA 95035			2133		
				DATE MAILED: 04/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/975,293	YEUNG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Joseph D. Torres	2133					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	e correspondence add	ress				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply b will apply and will expire SIX (6) MONTHS for e, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this com DNED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 02 F	-ehruany 2006						
	s action is non-final.						
3) Since this application is in condition for allower	merite is						
closed in accordance with the practice under		•	1101110 10				
Disposition of Claims							
4)⊠ Claim(s) <u>1-4 and 6-23</u> is/are pending in the ap	nnlication						
4a) Of the above claim(s) is/are withdra							
5)⊠ Claim(s) <u>1-4 and 6-21</u> is/are allowed.	With the transfer of the trans						
6)⊠ Claim(s) <u>22,23</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement	,					
, —	or election requirement.	•					
Application Papers	•	•					
9) The specification is objected to by the Examine							
10)⊠ The drawing(s) filed on <u>15 April 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Offi	ce Action or form PTC)-152.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	•	(a)-(d) or (f).					
1. Certified copies of the priority documen							
2. Certified copies of the priority document	• •						
3. Copies of the certified copies of the price		ived in this National S	tage				
application from the International Burea	• • • • • • • • • • • • • • • • • • • •						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summa	ary (PTO-413)					
2) Delice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	Date					
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	5) Notice of Informa 6) Other:	al Patent Application (PTO-	152)				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 02/02/2006 have been fully considered but they are not persuasive.

The Applicant contends, "Since "one of ordinary skill in the art at the time the invention was made would have known that syndromes are equal to the difference between received parity and newly generated parity at the receiver" (see Examiner's admission in last five lines on page 2 of the final Office Action dated November 30, 2005) and (i) the circuit shown in FIG. 7 of Stiffler receives only data bits (i.e., the signals bl...b16) and (ii) the signals [cl...c4] are computed parity relationships rather than a syndrome signal, it follows that one of ordinary skill in the art at the time the invention was made would not view FIG. 7 of Stiffler as teaching or suggesting a syndrome encoder circuit configured to (i) receive a read data signal AND a read parity-signal and (ii) generate a syndrome signal in response to the read data signal AND the read parity signal".

The Examiner disagrees and asserts that col. 8, lines 38-46 in Cassidy teaches that each of the parity nibbles such as c1-c4 are used to generate syndromes and that is why Cassidy labels circuit 430 in Figure 4 as the 1st Stage Syndrome Generator in recognition that circuit 430 generates syndrome signals necessary for the calculation of syndromes. The Examiner includes a teaching reference (Stephen B. Wicker, Error Control for Digital Communication and Storage,

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Prentice-Hall 1995, pages 99-121) and refers the Applicant to page 117 for a teaching on the relationship between parity and syndromes. In particular, Wicker teaches that parity are syndrome signals (a signal that has the express purpose of generating syndromes) used for generating a syndrome.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hidaka; Hideto et al. (US 4730320 A, hereafter referred to as Hidaka) in view of Chen; Chin L. (US 4464753 A) in further view of Stiffler; Jack J. (US 4736376 A). See the Non-Final Action filed 04/29/2005 for detailed action of prior rejections.

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3. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hidaka; Hideto et al. (US 4730320 A, hereafter referred to as Hidaka), Chen; Chin L. (US 4464753 A) and Stiffler; Jack J. (US 4736376 A).

See the Non-Final Action filed 04/29/2005 for detailed action of prior rejections.

Allowable Subject Matter

4. Claims 1-4 and 6-21 are allowed.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph D. Torres whose telephone number is (571) 272-3829. The examiner can normally be reached on M-F 8-5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LOSE/PH/TORRES

Joseph D. Torres, PhD Primary Examiner Art Unit 2133